Order-No.: DD+DIS098.02E

1 Piece U3WWU MA1

ADC Compact Plus

Type 5146 / 100/200

Installation of Software ACP_1104

This modification instruction is also enclosed to the modification kit.

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1 General

1.1 Restriction

Image Plates of type MD40 cannot be handled with this Software!

1.2 Hardware Requirements

cPCI-Rack:
- 200 MHz Ariel Board
- EPROM Mon 4.26
- MSB, Master-Scan-Board, Revision: 0
  with Scan IO-Board Boot EPLD, Version: 0
  and Scan IO-Board serial PROM, Version: 0
- Floppy (no SCSI)
- SCSI Hard disk

Stepper motor boards:
- GS IOB-SINSTEP (F8.9499.8100.0)
  (Firmware (Download) for it: SM5_1113.hex)
- GS IOB-5STEP (F8.9499.8120.2)
  (Firmware (Download) for it: SM5_1113.hex)

1.3 Software Requirements

This Software configuration is required for Fast Preview functionality.

Configuration	Preview and ID-Station	Processing-Device
ADC-Compact-Plus Connected to **VIPS** Connected to **Preview & ID-Stations**	> PRID1.2.09	≥ VIPS1.0.0.9

1.4 Order number

CM+9.5146.1050.3

1.5 Scope of Delivery

1 x Hard disk formatter floppy disk
2 x Portex installer floppy disks
3 x Application floppy disks
1 x Empty floppy

2 Installation

2.1 Upgrade of version ≥ ACP_1010 to ACP_1104

- Use the Application floppies ACP_1104 1/3 to 3/3
- Select
  `<Service Menu>`
  `<Install from floppy>`
  `<Software>`
- Follow the online instructions on the display of the digitizer.
- Reboot the system
- Refresh the backup

For an upgrade of a **lower version than ACP_1007** to ACP_1104 a new IP center calibration is necessary, because of changed IP stop position before start of scan. (Calibration procedure, see chapter 3.6 of your Technical Documentation)

2.2 Exchange of the Hard disk / Procedure to install ACP_1104 on a virgin Hard disk

- Take the **Hard disk formatter floppy of ACP_1104** and insert it into the floppy disk drive of ADC Compact Plus.
- Disconnect ADC Compact Plus from the network (since a default IP-Address & hostname is configured)
- Connect a PC with terminal program or a Terminal to service RS232 port
- Press the Reset button on Ariel-CPU or turn power off/on of ADC Compact Plus
- Confirm partitioning/formatting of the hard disk with 'y'.
- Wait until you get the final message on a terminal connected to the service RS232 port or wait until control LED of floppy disk drive is off.
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- Insert the floppy **ACP_1104 Portex Installer 2/2** into the disk drive of ADC Compact Plus
- Press the Reset on Ariel-CPU or turn Power Off/On of ADC Compact Plus
- Wait until you get the final message on a terminal connected to the service RS232 port or wait until control LED of floppy disk drive is off.

- Insert the floppy **ACP_1104 Release Disk 1/3** into the disk drive of ADC Compact Plus
- Press the Reset button on Ariel-CPU or turn power off/on of ADC Compact Plus
- Wait until you get the final message on a terminal connected to the service RS232 port, or wait until control LED of floppy disk drive is off.
- Proceed the same way with the **ACP_1104 Release Disk 2/3** and **3/3**

- Press the Reset button on Ariel-CPU or turn power off/on of ADC Compact Plus and wait until system is up
- In case of an already installed device (e.g. exchange of hard disk), restore the device specific parameters by following the guidelines of the Service Menu Topic *Install from floppy, Machine specific data.* **Without restoring the device specific parameters, an operation is not possible.**
- In case of a brand new configuration parse the CPF-File using the guidelines of the Service Menu Topic *Install from floppy, CPF-File,* displayed on the user interface.
- Reconnect ADC Compact Plus to the network.

3 What is new in ACP_1104?

- Support of Phillips erasure lamps:
  To observe the specification for erasure depth with the Phillips lamps, the erasure time is extended if the current input voltage is below the nominal input voltage.
- Removed user information text display “REQUEST TO CHANGE ALL ERASURE LAMPS”. This display appeared in dependence of erasure unit runtime and input voltage, after start up and every 24 hours.
- Modified stand-by behaviour of the Polygon for a longer lifetime: The polygon clock is switched off 45 sec after scan. No active breaking of the polygon.
- The working time of the laser diode and the photomultiplier; also the time the polygon is clocked, is stored in the info counters now. The date of the first entry is stored as well. At replacement of one of these parts, the referring counter is reset and its old value is written to the hardware replacement history.
- Solved problem of error 2060B after checking the laser position
- Changes in Polygon Jitter measurement
- The serial numbers of the photomultiplier and the optics module are now stored in scnxxx00.a00 instead scnxxx00.c00.
- Modified EVAluation tool jitter measurement (“Stoß-Jitter”).
- Infocounter Update
  Adapted info counters to what has been implemented in digitizer:
  - Monthly reports
  - Component lifetime monitoring (galvo has been replaced by polygon while migrating it)
- Speed correction factor ‘speed_corr’ now stored to slowscan sparepart floppy with SSCTST program

- Infocounter initialisation changed to solve possible crashes of the machine:
  - Monthly report is also initialised now in the empty struct
  - To create the infocounter file, this is always written completely.
- HTTP.tempdir moved to d:\http:
  In startup.com, the environmental HTTP.TEMPDIR is set to d:/http, enforcing that temporary http files are stored at d:/http
- Calculation of transport postscan erasure speed corrected:
  For the erasure times > 10 sec, the calculation of the postscan transport erasure speed values has changed, so that the real complete erasure time now matches much better with the desired time
- Crash at 1st start of the device after installation on an empty harddisk resolved.
- Shell command error <errorID> finds all errors now
- Solved problem of Ariel board self resetting

4 Known bugs in ACP_1104

- Under very special circumstances the info counter contents can be lost or might be scrambled in case of switching off the device during operation
- Jitter measurement (EVA) delivers not yet the correct results.
- No indication of folders in status 'error'
- If 10 folders are in the status ‚error'. These files have to be manually erased via Key-Operator mode before the system accepts new cassettes.
- Photomultiplier test may fail (20E0D) due to large tolerances.
- The serial numbers of parts are stored in configuration files on harddisk. These files are deleted with prepship.bat. In releases > ACP_1104 they will be stored in adjustment files.
- Invalid CPFs are not always rejected, after configuration, there is no hint that a reset is necessary to apply the changes.
- If a faulty backup-floppy is going to be restored, the digitizer simply refuses to proceed from the “Insert floppy” screen. There is no explicit message and the screen must be left with the “Cancel” button.
- IP not detected by Postscan lightbarrier
  Sporadic error. Probably IP jam in scanner.
- Stepper motor belt in cassette unit: Difference between standby current und acceleration current is too big.
- In case of IP jam in scanner before BOS sensor, IP might be damaged by alignment bar.